Joint Expeditionary Force Experiment 2008

JEFX-08 is an Air Force led experiment to explore a distributed architecture to globally link the Air Operation Centers (AOCs). With Navy participation, JEFX-08 will provide insight into the Navy's complementary architecture to network the Maritime Headquarters with/Maritime Operations Centers (MHQ w/MOC) with other components op-centers. MHQ w/ MOC will manage and coordinate fleet operations in a globally net-worked architecture. Commander, U.S. Second Fleet's (C2F) 'Networking the MOCs' initiative will explore pertinent Concepts of Operations (CONOPS), technologies and procedures associated with Maritime Operations Centers (MOCs) engaged at the operational level of war. Specifically, this initiative will look at the assessment, planning and execution issues faced when a MOC coordinates with and conducts command and control (C2) with other components, as both a supported and supporting commander. This experiment is part of an evolutionary effort to improve infrastructure, organization, and processes needed to mature the MHQ with MOC concept and allow effective global networking. The Navy's initiative will focus on two areas: (1) Networked MOC to AOC and (2) Joint and Maritime Fires.

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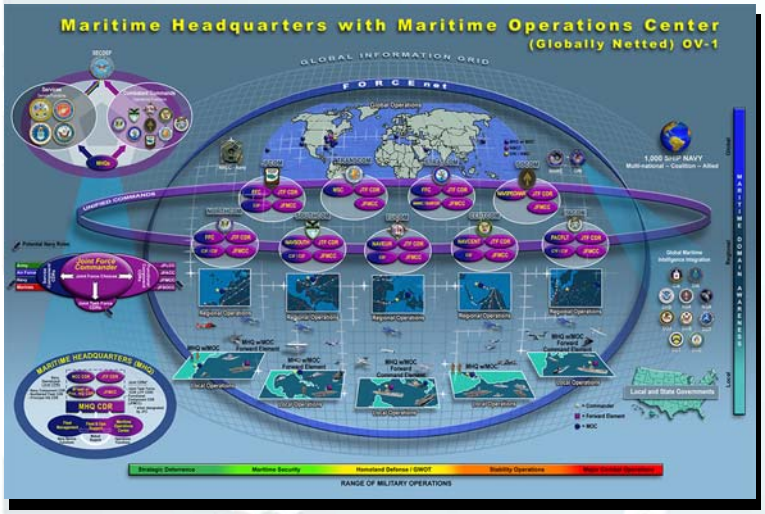
Networking the Maritime Headquarters with Maritime Operations Centers (MHQ w/MOC)

This initiative will focus on the processes and systems to facilitate MOC to AOC and supported to supporting MOC interactions required at the operational level of war. These interactions will include the sharing of information and knowledge in support of the planning, execution and assessment stages of operations. The nature of the interactions will include virtual augmentation of MOCs with warfighters and additional manpower from supporting and tailored MOCs. The Navy activities in JEFX will support Air Battle Planning, Maritime Dynamic Fires and Information Operations in the development of Courses of Action (COA), situational awareness and execution monitoring. Planning will be conducted in accordance with current MHQ w/MOC and other supporting CONOPS and doctrine.

This initiative will also include the Naval Network Warfare Command (NNWC) tailored MOC as part of the MHQ w/MOC global architecture. The NNWC MOC is responsible for providing NETOPS, IO, and space support to strategic, operational and tactical forces. This includes STRATCOM and its subordinate Joint Force Component Commanders (JFCCs), multiple MOCs, and maritime tactical forces. JEFX 08-03 provides an opportunity to evaluate the integration of the NNWC MOC within the Joint Force-MHQ w/MOC construct to provide comprehensive collaborative/ reach-back tailored IO support. This focus area will examine the NNWC MOC processes to provide time-sensitive support of the C2F MHQ w/MOC from the NNWC Little Creek Headquarters Complex and supporting Navy Information Operations Commands (NIOCs), including one configured with a Fleet Information Operations Center (FIOC). The NNWC MOC will conduct effects-based planning for Navy IO; generating the interdependent products and reach-back services from various sources to support the battle rhythm and scheme of maneuver/operational requirements of JFCCs, Naval Component Commanders (NCC) and other Joint and Coalition Forces worldwide.

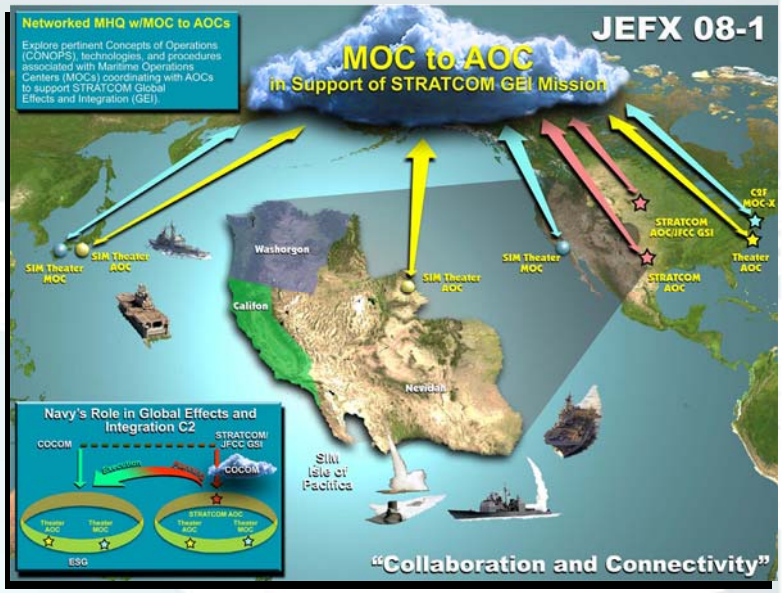


Goals/Objectives

- Identify, validate and refine applicable CONOPS
- Assess MOC to AOC interactions and ability of staffs to coordinate on resources and on setting operational objectives.
- Assess the role and positioning of the Navy Liaison Element (NALE) in light of the draft NWP3-30 in coordinating MOC and AOC interactions in the Air Battle Planning process.
- Explore C4I systems/ services that comprise the MOC/ TMOC baseline and support planning, execution and assessment.
- Examine network connectivity and the collaborative environment to support Fires, IO and Air Battle Planning.
- Examine ability of Service Orientated Architecture (SOA) to support operations in a MOC environment.
- Analyze the C2 processes, methods/procedures, information flows and tasks used within the NNWC MOC and supporting NIOCs/FIOC to support IO collaborative planning and execution with products and services within the C2F battle rhythm.
- Analyze the ability of the collaborative tools within the NNWC MOC IO domain to support the C2F MOC planning and execution processes.

Joint and Maritime Fires

The Joint and Maritime Fires focus area will explore the Fires process within the Joint Forces Maritime Component Commander Maritime Operations Center (JFMCC MOC) construct to include personnel, roles, equipment, and joint TTPs supporting cross-component processes. This focus area will examine emerging improvements to fires systems, as well as the doctrinal impacts on the latest CONOPS, TACMEMOs, and Tactics, Techniques, and Procedures (TTPs).



Goals/Objectives

- Examine the integration of the TLAM Strike Planning Cell into the JFMCC MOC command structure.
- Refine JFMCC MOC planning and execution TTPs with reference to Global Effects & Integration via TLAM options, and continue validation of the newly published Maritime Dynamic Targeting Tactical Memorandum (MDT TACMEMO 3-03.1-06).
- Develop the Fires Appendix to the Maritime Headquarters w/MOC CONOPS to standardize personnel, roles, equipment, and TTP for the execution of joint and maritime fires to include C2 between MOC-MOC, MOC-CSG/Principal Warfare Commander (PWC), and MOC-AOC.
- Examine required system tools in order to contribute to the development of the MOC client (e.g. Global Operations Center-Collaborative Environment - GOC-CE, Joint Coordinated Real-Time Engagement - JCRE system, Joint Automated Deep Operations Coordination System - JADOCS).
- Live-fly experimentation will examine technical capabilities for machine-to-machine (M2M) tasking/data transfer between a USMC ground node and FA-18E/F using latest USMC ground targeting & communications systems and updated aircraft sensors and software configurations. Results will support refinement of the MDT TACMEMO and Strike Link system TTPs, demonstrate enhanced tactical capabilities and refine requirements for MHQ w/MOC and joint services regarding data link / OPS center architectures.